

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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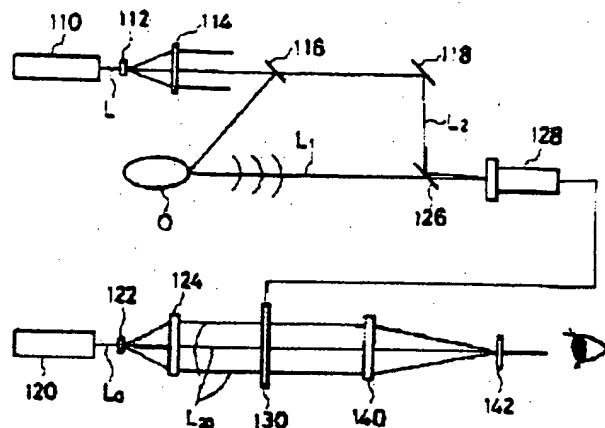
APPLICATION DATE : 31-01-92  
APPLICATION NUMBER : 04040622

APPLICANT : CITIZEN WATCH CO LTD;

INVENTOR : HASHIMOTO NOBUYUKI;

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TITLE : HOLOGRAPHY TV DEVICE



**ABSTRACT :** PURPOSE: To provide a device free from an interference fringe pattern defect in a space light modulator by repeatedly driving a simple matrix liquid crystal display element at a high speed on the basis of the same data written in an image memory.

CONSTITUTION: A simple matrix liquid crystal display element 130 is provided in a reproducible optical system. Transmitted light diffracted due to an interference fringe reproduced in the element 130 is focused through an imaging lens, and a space filter 142 for removing 0-order diffracted light is laid at the imaging position, thereby enabling a subject to be observed as a three-dimensional image. In this device, data is read out from an image memory and the same data is repeatedly written in the element 130 at a cycle shorter than the disappearance time of the data. During this cycle, no data is written in the image memory and the same data as read out is saved therein. Consequently, the data is saved in each picture element of the element 130 over the period of the repeated data writing, thereby preventing the loss of the data.

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